

EAST Search History

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S24 3	345	726/2.ccls.	USPAT	OR	OFF	2007/03/19 10:17
S24 4	368	726/3.ccls.	USPAT	OR	OFF	2007/03/19 10:17
S24 5	398	726/4.ccls.	USPAT	OR	OFF	2007/03/19 10:17
S24 6	338	726/5.ccls.	USPAT	OR	OFF	2007/03/19 10:17
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S25 4	132	726/29.ccls.	USPAT	OR	OFF	2007/03/19 10:19
S25 5	160	726/30.ccls.	USPAT	OR	OFF	2007/03/19 10:19
S25 6	921	713/168.ccls.	USPAT	OR	OFF	2007/03/19 10:25
S25 7	76	(global near3 authenticat\$4) and (local near3 authenticat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 10:27
S25 8	412	(global near3 authenticat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 11:57
S25 9	1	(global and first and second and network and assets and (authenticat\$4 or validat\$4) and local and customer).clm.	US-PGPUB; USPAT	OR	ON	2007/03/19 12:00

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S26 0	2	(global near3 authenticat\$4 near6 authority) and (pluralit\$5 or many or multiple or second) near6 network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 12:03
S26 1	2	(global near3 authenticat\$4 near6 authority) and (digital near3 asset)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 12:04
S26 2	2	(global near3 authenticat\$4 near6 authority) and (local near3 authenticat\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 12:05
S26 3	76	(global near3 authenticat\$4) and (local near3 authenticat\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 15:21

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global and local authentication

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global and local authentication

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[PDF] Design and Deployment of a National-Scale Authentication ...

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10 Administering Authentication

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Enabling this setting does not alter the first **authentication** attempt by a user. The **local** domain controller still needs to contact the **global** catalog to ...
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1 Decentralized user authentication in a global file system



Michael Kaminsky, George Savvides, David Mazieres, M. Frans Kaashoek

October 2003 **ACM SIGOPS Operating Systems Review, Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(144.43 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The challenge for user authentication in a global file system is allowing people to grant access to specific users and groups in remote administrative domains, without assuming any kind of pre-existing administrative relationship. The traditional approach to user authentication across administrative domains is for users to prove their identities through a chain of certificates. Certificates allow for general forms of delegation, but they often require more infrastructure than is necessary to sup ...

Keywords: ACL, SFS, authentication, authorization, credentials, file system, groups, users

2 Access control in federated systems



Sabrina De Capitani di Vimercati, Pierangela Samarati

September 1996 **Proceedings of the 1996 workshop on New security paradigms NSPW '96**

Publisher: ACM Press

Full text available:  [pdf\(1.45 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#)

3 Sensors and networking: TinySeRSync: secure and resilient time synchronization in wireless sensor networks



Kun Sun, Peng Ning, Cliff Wang

October 2006 **Proceedings of the 13th ACM conference on Computer and communications security CCS '06**

Publisher: ACM Press

Full text available:  [pdf\(410.62 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Accurate and synchronized time is crucial in many sensor network applications due to the need for consistent distributed sensing and coordination. In hostile environments where an adversary may attack the networks and/or the applications through external or compromised nodes, time synchronization becomes an attractive target due to its importance. This paper describes the design, implementation, and evaluation of TinySeRSync, a secure and resilient time synchronization subsystem for wireless sen ...

Keywords: security, sensor networks, time synchronization

4

Article abstracts with full text online: Globus security model for grid environment



Nitin V. Kanaskar, Umit Topaloglu, Coskun Bayrak
 November 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 6

Publisher: ACM Press

Full text available: pdf(372.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Grid technology is increasingly being looked upon as a natural extension of the internet for engaging in complex data processing tasks over resources which are distributed across the world. Architects and developers employing grid systems must take into consideration security implications. Dynamic generation of virtual organizations leads to a synergistic picture which has to address security requirements never encountered before. Globus toolkit has devised a framework for making secure use of g ...

5 LEAP+: Efficient security mechanisms for large-scale distributed sensor networks



Sencun Zhu, Sanjeev Setia, Sushil Jajodia
 November 2006 **ACM Transactions on Sensor Networks (TOSN)**, Volume 2 Issue 4

Publisher: ACM Press

Full text available: pdf(206.32 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe LEAP+ (Localized Encryption and Authentication Protocol), a key management protocol for sensor networks that is designed to support in-network processing, while at the same time restricting the security impact of a node compromise to the immediate network neighborhood of the compromised node. The design of the protocol is motivated by the observation that different types of messages exchanged between sensor nodes have different security requirements, and that a single keying me ...

Keywords: In-network processing, key erasure, key management, pairwise key, sensor networks

6 A security architecture for computational grids



Ian Foster, Carl Kesselman, Gene Tsudik, Steven Tuecke
 November 1998 **Proceedings of the 5th ACM conference on Computer and communications security CCS '98**

Publisher: ACM Press

Full text available: pdf(1.23 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 A semantics for a logic of authentication (extended abstract)



Martín Abadi, Mark R. Tuttle
 July 1991 **Proceedings of the tenth annual ACM symposium on Principles of distributed computing PODC '91**

Publisher: ACM Press

Full text available: pdf(1.63 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 SHARP: an architecture for secure resource peering



Yun Fu, Jeffrey Chase, Brent Chun, Stephen Schwab, Amin Vahdat
 October 2003 **ACM SIGOPS Operating Systems Review, Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5

Publisher: ACM Press

Full text available: pdf(339.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents Sharp, a framework for secure distributed resource management in an Internet-scale computing infrastructure. The cornerstone of Sharp is a construct to represent cryptographically protected resource <it>claims</it>---promises or rights to control resources for designated time intervals---together with secure mechanisms to subdivide and delegate claims across a network of resource managers. These mechanisms enable flexible <it>resource peeri ...

Keywords: peer-to-peer, resource allocation, resource peering

9

Specifying Kerberos 5 cross-realm authentication

 I. Cervesato, A. D. Jaggard, A. Scedrov, C. Walstad
 January 2005 **Proceedings of the 2005 workshop on Issues in the theory of security
 WITS '05**
 Publisher: ACM Press
 Full text available:  pdf(228.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Cross-realm authentication is a useful and interesting component of Kerberos aimed at enabling secure access to services astride organizational boundaries. We present a formalization of Kerberos 5 cross-realm authentication in MSR, a specification language based on multiset rewriting. We also adapt the Dolev-Yao intruder model to the cross-realm setting and prove an important property for a critical field in a cross-realm ticket. Finally, we document several failures of authentication and confid ...

 10 **Protocols: The Eigentrust algorithm for reputation management in P2P networks**
 Separandar D. Kamvar, Mario T. Schlosser, Hector Garcia-Molina
 May 2003 **Proceedings of the 12th international conference on World Wide Web
 WWW '03**
 Publisher: ACM Press
 Full text available:  pdf(202.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Peer-to-peer file-sharing networks are currently receiving much attention as a means of sharing and distributing information. However, as recent experience shows, the anonymous, open nature of these networks offers an almost ideal environment for the spread of self-replicating inauthentic files. We describe an algorithm to decrease the number of downloads of inauthentic files in a peer-to-peer file-sharing network that assigns each peer a unique global trust value, based on the peer's history of ...

Keywords: distributed eigenvector computation, peer-to-peer, reputation

 11 **Data and Content: MarconiNet supporting streaming media over localized wireless
 multicast**
 Ashutosh Dutta, Subir Das, Wai Chen, Anthony McAuley, Henning Schulzrinne, Onur Altintas
 September 2002 **Proceedings of the 2nd international workshop on Mobile commerce
 WMC '02**
 Publisher: ACM Press
 Full text available:  pdf(464.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Flexible multi-media streaming such as advertisement insertion, location based services, mobility and wireless access are vital components that make existing Internet Radio and TV networks more attractive for the roaming users. All of these applications also provide added value to telematics, and military usage including coordination, education, situation awareness, distributed simulation, battlefield communication and multi-player games. While content distribution over a wired network can be rea ...

Keywords: join/leave latency, marconinet, multicast, streaming

 12 **Heterogeneous computing environments: report on the ACM SIGOPS workshop on
 accommodating heterogeneity**
 David Notkin, Norman Hutchinson, Jan Sanislo, Michael Schwartz
 February 1987 **Communications of the ACM**, Volume 30 Issue 2
 Publisher: ACM Press
 Full text available:  pdf(1.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The ACM SIGOPS Workshop on Accommodating Heterogeneity was conducted in December 1985 in Eastbound, Wash., as a forum for an international group of fifty researchers to discuss the technical issues surrounding heterogeneous computing environments.

 13 **UFO: a personal global file system based on user-level extensions to the operating
 system**
 Albert D. Alexandrov, Maximilian Ibel, Klaus E. Schauser, Chris J. Scheiman
 August 1998 **ACM Transactions on Computer Systems (TOCS)**, Volume 16 Issue 3
 Publisher: ACM Press
 Full text available:  pdf(251.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In this article we show how to extend a wide range of functionality of standard operation systems completely at the user level. Our approach works by intercepting selected system calls at the user level, using tracing facilities such as the /proc file system provided by many Unix operating systems. The behavior of some intercepted system calls is then modified to implement new functionality. This approach does not require any relinking or recompilation of existing applications. In fact, the ...

Keywords: file caching, global name space, proc file system, user-level operating system extensions

14 Implementing role based access control for federated information systems on the web 

Kerry Taylor, James Murty

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(217.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There is rapidly increasing interest in Australia in on-line sharing of information stored in corporate databases, especially within and between staff of independent government agencies. Biological collections databases and population health GIS are good examples of the frequent situation where database custodians are looking for dynamic, distributed, heterogenous federated information system models for information sharing within loosely constituted communities. This paper describes a security m ...

Keywords: RBAC, federated databases

15 Role of local context in automatic deidentification of ungrammatical, fragmented text 

Tawanda Sibanda, Ozlem Uzuner

June 2006 **Proceedings of the main conference on Human Language Technology Conference of the North American Chapter of the Association of Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available:  pdf(281.28 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Deidentification of clinical records is a crucial step before these records can be distributed to non-hospital researchers. Most approaches to deidentification rely heavily on dictionaries and heuristic rules; these approaches fail to remove most personal health information (PHI) that cannot be found in dictionaries. They also can fail to remove PHI that is ambiguous between PHI and non-PHI. Named entity recognition (NER) technologies can be used for deidentification. Some of these technologies e ...

16 IP micro-mobility protocols 

Andrew T. Campbell, Javier Gomez-Castellanos

October 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4

Issue 4

Publisher: ACM Press

Full text available:  pdf(1.12 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The IETF Mobile IP Working Group is discussing a number of enhancements to the base protocol to reduce the latency, packet loss and signaling overhead experienced during handoff. In this article, we discuss a number of "micro-mobility protocols" that extend Mobile IP with fast handoff and paging capabilities. The aim of this article is not to provide an exhaustive survey of these protocols. Rather, we discuss the motivation behind micro-mobility, present common characteristics that a number of p ...

17 The alchemy model: a model for homogeneous and heterogeneous distributed computing system 

S. J. Pratt

April 1986 **ACM SIGOPS Operating Systems Review**, Volume 20 Issue 2

Publisher: ACM Press

Full text available:  pdf(849.42 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The performance of any computing system is seriously affected by the performance of the resident operating system. Distributed computing systems are no different. There have been many successful attempts at harnessing the full potential offered by distributed computing's inherent flexibility. However by far the majority of these implementations

have been made on homogeneous configurations; the complexity implicit in connecting a number of heterogeneous sub-systems into a single, unified distribu ...

18 Separating Abstractions from Resources in a Tactical Storage System

Douglas Thain, Sander Klous, Justin Wozniak, Paul Brenner, Aaron Striegel, Jesus Izaguirre
November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC '05**

Publisher: IEEE Computer Society

Full text available:  [pdf\(401.40 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Sharing data and storage space in a distributed system remains a difficult task for ordinary users, who are constrained to the fixed abstractions and resources provided by administrators. To remedy this situation, we introduce the concept of a tactical storage system (TSS) that separates storage abstractions from storage resources, leaving users free to create, reconfigure, and destroy abstractions as their needs change. In this paper, we describe how a TSS can provide a variety of filesystem an ...

19 Massive High-Performance Global File Systems for Grid computing

Phil Andrews, Patricia Kovatch, Christopher Jordan

November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC '05**

Publisher: IEEE Computer Society

Full text available:  [pdf\(493.23 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

In this paper we describe the evolution of Global File Systems from the concept of a few years ago, to a first demonstration using hardware Fibre Channel frame encoding into IP packets, to a native GFS, to a full prototype demonstration, and finally to a production implementation. The surprisingly excellent performance of the Global File Systems over standard TCP/IP Wide Area Networks has made them a viable candidate for the support of Grid Supercomputing. The implementation designs and performa ...

20 Identity Boxing: A New Technique for Consistent Global Identity

Douglas Thain

November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC '05**

Publisher: IEEE Computer Society

Full text available:  [pdf\(393.19 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Today, users of the grid may easily authenticate themselves to computing resources around the world using a public key security infrastructure. However, users are forced to employ a patchwork of local identities, each assigned by a different local authority. This forces each grid system to provide a mapping from global to local identities, creating a significant administrative burden and inhibiting many possibilities of data sharing. To remedy this, we introduce the technique of identity boxing. ...

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21 Session 1: On fairness in simulability-based cryptographic systems 
 Michael Backes, Dennis Hofheinz, Jörn Müller-Quade, Dominique Unruh
 November 2005 **Proceedings of the 2005 ACM workshop on Formal methods in security engineering FMSE '05**
 Publisher: ACM Press
 Full text available:  pdf(276.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
 Simulability constitutes the cryptographic notion of a secure refinement and has asserted its position as one of the fundamental concepts of modern cryptography. Although simulability carefully captures that a distributed protocol does not behave any worse than an ideal specification, it however does not capture any form of liveness guarantees, i.e., that something good eventually happens in the protocol. We show how one can extend the notion of simulability to comprise liveness guarantees ...

Keywords: cryptographic protocols, fairness, scheduling, simulability

22 Multi-agent systems and social behavior: A user-centric anonymous authorisation framework in e-commerce environment 
 Richard Au, Harikrishna Vasanta, Kim-Kwang Raymond Choo, Mark Looi
 March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**
 Publisher: ACM Press
 Full text available:  pdf(291.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
 A novel user-centric authorisation framework suitable for e-commerce in an open environment is proposed. The credential-based approach allows a user to gain access rights anonymously from various service providers who may not have pre-existing relationships. Trust establishment is achieved by making use of referrals from external third parties in the form of *Anonymous Attribute Certificates*. The concepts of *One-task Authorisation Key* and *Binding Signature* are proposed to fac ...

23 A grid-enabled MPI: message passing in heterogeneous distributed computing systems 
 Ian Foster, Nicholas T. Karonis
 November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '98**
 Publisher: IEEE Computer Society
 Full text available:  html(52.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
 Application development for high-performance distributed computing systems, or computational grids as they are sometimes called, requires ``grid-enabled'' tools that hide mundane aspects of the heterogeneous grid environment without compromising performance. As part of an investigation of these issues, we have developed MPICH-G, a grid-enabled implementation of the Message Passing Interface (MPI) that allows a user to run MPI programs across multiple computers at different sites using the same co ...

Keywords: MPI, MPICH, Message Passing Interface, computational grids, globus, metacomputing

24 [Password management, mnemonics, and mother's maiden names: Passpet: convenient password management and phishing protection](#)

 Ka-Ping Yee, Kragen Sitaker
July 2006 **Proceedings of the second symposium on Usable privacy and security SOUPS '06**
Publisher: ACM Press

Full text available:  pdf(479.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe Passpet, a tool that improves both the convenience and security of website logins through a combination of techniques. Password hashing helps users manage multiple accounts by turning a single memorized password into a different password for each account. User-assigned site labels (petnames) help users securely identify sites in the face of determined attempts at impersonation (phishing). Password-strengthening measures defend against dictionary attacks. Customizing the user interfac ...

25 [Cryptographic security Techniques for wireless networks](#)

 Danai Patiyoot, S. J. Shepherd
April 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 2

Publisher: ACM Press
Full text available:  pdf(1.12 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper deals with security techniques for wireless Networks. The work presented is based on a review of literature regarding current and future wireless security networks systems. The aspects discussed in this paper included the choices of cryptographic algorithms such as protocols for key management and authentication. Various conclusions are drawn from existing security networks and proposed in new wireless ATM network security. Also a proposal for future research into security techniques ...

Keywords: cryptographic, security, wireless

26 [Special issue on independent components analysis: ICA for watermarking digital images](#)

Stéphane Bounkong, Borémi Toch, David Saad, David Lowe
December 2003 **The Journal of Machine Learning Research**, Volume 4

Publisher: MIT Press
Full text available:  pdf(554.76 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We present a domain-independent ICA-based approach to watermarking. This approach can be used on images, music or video to embed either a robust or fragile watermark. In the case of robust watermarking, the method shows high information rate and robustness against malicious and non-malicious attacks, while keeping a low induced distortion. The fragile watermarking scheme, on the other hand, shows high sensitivity to tampering attempts while keeping the requirement for high information rate and lo ...

27 [Probabilistic quorum protocols for biometrical user authentication in OLTP](#)

 V. K. Murthy
January 1996 **ACM SIGSAC Review**, Volume 14 Issue 1

Publisher: ACM Press
Full text available:  pdf(398.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A statistical zero-knowledge authentication scheme is described for security control in on-line database transaction processing systems (OLTP). This scheme uses probabilistic quorum protocols to validate users using their biometrical characteristics (such as speech, handwriting and keyboard characteristics). This authentication scheme can be implemented using the present-day smart card technology.

28 [Papers: Cellular IP: a new approach to Internet host mobility](#)

 András G. Valkó
January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1

Publisher: ACM Press
Full text available:  pdf(1.35 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes a new approach to Internet host mobility. We argue that by separating local and wide area mobility, the performance of existing mobile host protocols (e.g. Mobile IP) can be significantly improved. We propose Cellular IP, a new lightweight and robust protocol that is optimized to support local mobility but efficiently interworks with Mobile IP to provide wide area mobility support. Cellular IP shows great benefit in comparison to existing host mobility proposals for environments ...

29 [Combinatorial mobile IP: a new efficient mobility management using minimized paging and local registration in mobile IP environments](#)

Taehwan Choi, Laeyoung Kim, Jeongeun Nah, Jooseok Song
May 2004 **Wireless Networks**, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(247.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Combinatorial Mobile IP, a new mobility management scheme for Mobile IP, is proposed and analyzed. We present how to adopt mobility management schemes on cellular networks and adapt them in Mobile IP without disrupting the nature of the Internet. We apply widely used mobility management schemes such as hierarchical architecture and paging in cellular networks to Mobile IP. We restrict paging to the area that has to be paged using local registrations. In this way, we show that the total signaling ...

Keywords: micro-mobility protocol, mobile IP, mobility management, random walk model on a connected graph

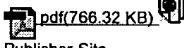
30 [Project APRIL: a progress report](#)

Robin Haigh, Geoffrey Sampson, Eric Atwell

June 1988 **Proceedings of the 26th annual meeting on Association for Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#)

[Publisher Site](#)

Parsing techniques based on rules defining grammaticality are difficult to use with authentic inputs, which are often grammatically messy. Instead, the APRIL system seeks a labelled tree structure which maximizes a numerical measure of conformity to statistical norms derived from a sample of parsed text. No distinction between legal and illegal trees arises: any labelled tree has a value. Because the search space is large and has an irregular geometry, APRIL seeks the best tree using simulated a ...

31 [Separating key management from file system security](#)

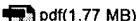


David Mazières, Michael Kaminsky, M. Frans Kaashoek, Emmett Witchel

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

No secure network file system has ever grown to span the Internet. Existing systems all lack adequate key management for security at a global scale. Given the diversity of the Internet, any particular mechanism a file system employs to manage keys will fail to support many types of use. We propose separating key management from file system security, letting the world share a single global file system no matter how individuals manage keys. We present SFS, a secure file system that avoids internal ...

32 [Tuple centres for the coordination of Internet agents](#)

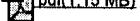


Andrea Omicini, Franco Zambonelli

February 1999 **Proceedings of the 1999 ACM symposium on Applied computing SAC '99**

Publisher: ACM Press

Full text available:



Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

33 [Extending NCP for protocols using public keys](#)

Aviel D. Rubin

December 1997 **Mobile Networks and Applications**, Volume 2 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  pdf(635.20 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the greatest obstacles to wide-spread deployment of wireless mobile systems is security. Cryptographically strong protocols and algorithms are required to enable secure communication over links that are easy to monitor and control by an attacker. While good cryptographic algorithms exist, it is difficult to design protocols that are immune to malicious attack. Good analysis techniques are lacking. This paper presents extensions to a technique for specifying and analyzing nonmonotonic ...

34 Giggle: a framework for constructing scalable replica location services

Ann Chervenak, Ewa Deelman, Ian Foster, Leanne Guy, Wolfgang Hoschek, Adriana Iamnitchi, Carl Kesselman, Peter Kunszt, Matei Ripeanu, Bob Schwartzkopf, Heinz Stockinger, Kurt Stockinger, Brian Tierney

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing Supercomputing '02**

Publisher: IEEE Computer Society Press

Full text available:  pdf(277.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In wide area computing systems, it is often desirable to create remote read-only copies (replicas) of files. Replication can be used to reduce access latency, improve data locality, and/or increase robustness, scalability and performance for distributed applications. We define a replica location service (RLS) as a system that maintains and provides access to information about the physical locations of copies. An RLS typically functions as one component of a data grid architecture. This paper mak ...

35 SafeBots: a paradigm for software security controls



Robert Filman, Ted Linden

September 1996 **Proceedings of the 1996 workshop on New security paradigms NSPW '96**

Publisher: ACM Press

Full text available:  pdf(754.67 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

36 Secure wireless LANs



V. Bharghavan

November 1994 **Proceedings of the 2nd ACM Conference on Computer and communications security CCS '94**

Publisher: ACM Press

Full text available:  pdf(674.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile computing is a major area of current research. A variety of wirelessly networked mobile devices now make it possible for a physically untethered computer to function in a fully networked manner. Recent research has focussed on providing the mobile user a seamless environment of wired and wireless networks. One of the major hurdles in providing such a seamless environment is that wireless media are inherently less secure. In this paper, we propose a security scheme for wirel ...

37 Decentralized user-role assignment for Web-based intranets



Ravi Sandhu, Joon S. Park

October 1998 **Proceedings of the third ACM workshop on Role-based access control RBAC '98**

Publisher: ACM Press

Full text available:  pdf(1.35 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

38 Logics and security: Timed model checking of security protocols



R. Corin, S. Etalle, P. H. Hartel, A. Mader

October 2004 **Proceedings of the 2004 ACM workshop on Formal methods in security engineering FMSE '04**

Publisher: ACM Press

Full text available:  pdf(182.58 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a method for engineering security protocols that are aware of timing aspects. We study a simplified version of the well-known Needham Schroeder protocol and the complete Yahalom protocol. Timing information allows us to study of different attack

scenarios. We illustrate the attacks by model checking the protocol using Uppaal.

We also present new challenges and threats that arise when considering time.

Keywords: security protocols, timed automata, timed model checking

39 [An efficient and secure authentication protocol using uncertified keys](#)

 I.-Lung Kao, Randy Chow

July 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(700.52 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)



Most authentication protocols for distributed systems achieve identification and key distributions on the belief that the use of a uncertified key, i.e. the key whose freshness and authenticity cannot be immediately verified by its receiving principal while being received, should be avoided during the mid-way of an authentication process. In this paper we claim that using a uncertified key prudently can give performance advantages and not necessarily reduces the security of authentication protoc ...

40 [Wireless LANs: from WarChalking to open access networks](#)

Roberto Battiti, Renato Lo Cigno, Mikalai Sabel, Fredrik Orava, Björn Pehrson

June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(2.45 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



This work discusses the evolution of W-LANs from their current status of wireless termination of LAN services to a possible global infrastructure where the access networks become open to multiple operators and a vehicle of a win-win scenario, where both users and operators benefit from the new network architecture. The idea of Open Access Networks (OANs) can go beyond wireless HotSpots and be generalized to a generic shared access infrastructure that fosters service operators competition and dra ...

Keywords: business models, open access networks, resource sharing, telecommunications architecture, user-operator interaction, wireless LANs

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